

ABSTRACT OF THE DISCLOSURE

A passive mixer for converting a radio frequency (RF) signal to an intermediary frequency (IF) signal or vice versa. The mixer comprises a voltage controlled mixing means for mixing a local oscillator signal with either an RF or IF signal. A bootstrapping technique is used for feeding back a low frequency component of the IF signal through a low-pass filter to the mixing means. The mixing means will follow low frequency variations of the IF signal, which will improve the linearity of the mixer.